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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
08/690,747	08/01/1996	HISASHI OHTANI	07977/052001	1369
20985	985 7590 06/26:2002 TSH & RICHARDSON, PC		EXAM	INER
	LHARDSON, PC LLA VILLAGE DRIVE		KUNEMUND, ROBERT M	
SAN DIEGO, CA 92122			ART UNIT	PAPER NUMBER
			1765	.29
		DATE MAILED: 06/26/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		08/690,747	OHTANI ET AL.			
		Examiner	Art Unit			
		Robert M Kunemund	1765			
	- The MAILING DATE of this communication app	ears on the cover sheet with the	e correspondence address			
Period for	Period for Reply					
THE N - Exten after S - If the - If NO - Failur - Any re earne	DRTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period e to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fr	e timely filed days will be considered timely. rom the mailing date of this communication. NED (35 U.S.C. § 133).			
Status	Responsive to communication(s) filed on 17	October 2001 .				
1)[_	— —	nis action is non-final.				
2a)☐	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
3) Since this application is in condition for allowance except for formal matters, processes of the closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	on of Claims					
4) Claim(s) 21,25 and 37-96 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.					
6)[☑ Claim(s) <u>21, 25 and 37-96</u> is/are rejected.						
7)	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
11)	The proposed drawing correction filed on		pproved by the Examination			
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
	1. Certified copies of the priority docume	nts have been received.				
	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachme						
1) No	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Info	mmary (PTO-413) Paper No(s) bring in the proof of the proof o			
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The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321© may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 21, 25, and 37 to 96 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-48 of U.S. Patent No. 6,066,518. Although the conflicting claims are not identical, they are not patentably distinct from each other because the sole difference is the use of a mask. However, in the absence of unobvious results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable means of placing the gettering agent in order to remove metal or grain boundaries

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 21, 25 and 37 to 96 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima et al. in view of Yamada (Jp 5-109,737).

The Nakajima et al reference teaches a method of silicon crystal growth. On a substrate, a catalyst for growth is applied. Then an amorphous layer is deposited onto the metal, the resulting structure is then annealed in order to crystallize the silicon. The silicon can be patterned to form island. The sole difference between the instant claims and the prior art is the etching and use of a gettering agent. However, the Yamada reference teaches ion implanting phosphorus or argon ions in to an amorphous silicon and then crystallization of the silicon. The implanted ions act as getters and cause metal to move to the gettering areas and the gettering areas are removed, note entire reference. It would have been obvious to one of ordinary skill in the art to modify the Nakajima et al process by the teachings of the Yamada reference to etch and getter in order to remove the metal catalyst which lower the output of the device formed on such layers.

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Response to Applicant's Arguments

Applicant's arguments filed October 17, 2001 have been fully considered but they are not persuasive.

Applicants' argument concerning the Yamada et al reference is noted. However, the reference does teach that when one is done with the metal that is implanted to remove the metal as it is harmful to device formations. This is the exact reason that applicants remove the metal and by the same method. It would clearly have been obvious to one of ordinary skill in the art to remove the metal, etching, after crystallization as one is done with the metal and the metal will ruin the device.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Kunemund whose telephone number is (703) 308-1091. The examiner can normally be reached on Monday through Friday from 7:00 to 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ben Utech can be reached on (703) 308-3324. The fax phone number for this Group is (703) 305-3599.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

RMK

June 18, 2002

PRIMARY EXAMINER